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Reflection spectroscopy

P. Lemasson and C. Nguyen Van Huong, $Hg_{1-x}Cd_xTe$ $(0 \leqslant x \leqslant 1)$: a correlation between stoichiometry, surface preparation and electroreflectance measurements 238 (1990) 264

Rhodium

V.R. Dhanak and D.W. Bassett, Field ion microscope studies of submonolayer rhodium films on (110) tungsten and molybdenum surfaces 238 (1990) 289

Ruthenium

J.S. Dyer and P.A. Thiel, Adsorption and desorption of CF_3I on Ru(001) 238 (1990) 169
M.M. Walczak and P.A. Thiel, Cyclic ethers adsorbed on Ru(001) 238 (1990) 180

Secondary ion mass spectroscopy

N. Kruse, M. Rebholz, V. Matolin, G.K. Chuah and J.H. Block, Methanol decomposition on Pd(111) single crystal surfaces 238 (1990) L457
V. Matolín and E. Gillet, CO disproportionation over supported Pd particles: a TPD and static SIMS study 238 (1990) 75

Semiconductors

J.M. Palau and M. Dumas, Effect of inside-spread surface states on Fermi level pinning 238 (1990) 271

Silicon

M. Tikhov, L. Surnev and M. Kiskinova, Temperature effects on the oxidation kinetics of clean and cesiated Si(111) and Si(100) surfaces 238 (1990) L463
P.A. Taylor, R.M. Wallace, W.J. Choyke and J.T. Yates, Jr., The adsorption and thermal decomposition of PH_3 on Si(111)-(7×7) 238 (1990) 1
M. Kiskinova, M. Tikhov and L. Surnev, Interaction of oxygen with Si(111)-7×7 and Si(100)2×1 surfaces modified with small amounts of Cs 238 (1990) 25
S. Andrieu, F. Arnaud d'Avitaya and J.C. Pfister, Ga adsorption on Si(111) analysed by in situ ellipsometry: 2D and 3D growth 238 (1990) 53

Silver

A.F. Carley, P.R. Davies, M.W. Roberts and K.K. Thomas, Hydroxylation of molecularly adsorbed water at Ag(111) and Cu(100) surfaces by dioxygen: photoelectron and vibrational spectroscopic studies 238 (1990) L467
I. Mrozek, C. Pettenkofer and A. Otto, Raman spectroscopy of carbon monoxide adsorbed on silver island films 238 (1990) 192
C.A. Formstone, E.T. FitzGerald, J.S. Foord and P.A. Cox, Photoelectron spectroscopy of silver deposition onto the van der Waals faces of $SnS_{2-x}Se_x$ crystals 238 (1990) 199
X.-L. Zhou, M.E. Castro and J.M. White, Interactions of UV photons and low energy electrons with chemisorbed benzene on Ag(111) 238 (1990) 215
G. Polzonetti, P. Alnot and C.R. Brundle, The adsorption and reactions of NO_2 on the Ag(111) surface. I. XPS/UPS and annealing studies between 90 and 300 K 238 (1990) 226
G. Polzonetti, P. Alnot and C.R. Brundle, The adsorption and reactions of NO_2 on the Ag(111) surface. II. Adsorption at 25 K and annealing to 300 K 238 (1990) 237

Solid–electrolyte interface

S.-C. Chang and M.J. Weaver, Coverage- and potential-dependent binding geometries of carbon monoxide at ordered low-index platinum– and rhodium–aqueous interfaces: comparisons with adsorption in corresponding metal–vacuum environments 238 (1990) 142
P. Lemasson and C. Nguyen Van Huong, $Hg_{1-x}Cd_xTe$ $(0 \leqslant x \leqslant 1)$: a correlation between stoichiometry, surface preparation and electroreflectance measurements 238 (1990) 264

Sulphides

C.A. Formstone, E.T. FitzGerald, J.S. Foord and P.A. Cox, Photoelectron spectroscopy of silver deposition onto the van der Waals faces of $SnS_{2-x}Se_x$ crystals 238 (1990) 199

Sulphur

J. Uppenbrink, A.I. Kirkland, D. Tang and D.A. Jefferson, High-resolution profile imaging studies of sulphur overlayers on platinum {100} surfaces 238 (1990) 132

Surface composition

P. Beccat, Y. Gauthier, R. Baudoing-Savois and J.C. Bertolini, Monotonous

concentration profile and reconstruction at $Pt_{80}Fe_{20}(111)$: LEED study of a catalyst 238 (1990) 105

Surface diffusion

V.R. Dhanak and D.W. Bassett, Field ion microscope studies of submonolayer rhodium films on (110) tungsten and molybdenum surfaces 238 (1990) 289

Surface states and interface states

J.M. Palau and M. Dumas, Effect of inside-spread surface states on Fermi level pinning 238 (1990) 271

Surface structure, see also Low energy electron diffraction

P. Beccat, Y. Gauthier, R. Baudoing-Savois and J.C. Bertolini, Monotonous concentration profile and reconstruction at $Pt_{80}Fe_{20}(111)$: LEED study of a catalyst 238 (1990) 105

G. Kleinle, W. Moritz and G. Ertl, An efficient method for LEED crystallography 238 (1990) 119

H.J. Kreuzer, Kinetic lattice gas model with precursors 238 (1990) 305

Surface thermodynamics

Y. Teraoka, Surface relaxation effects on surface segregation and order–disorder transition temperatures of binary alloys 238 (1990) L453

A. Patrykiejew, D.P. Landau and K. Binder, Lattice gas models for multilayer adsorption: variation of phase diagrams with the strength of the substrate potential 238 (1990) 317

Thermal desorption

J. Schott, D. Lackey and J.K. Sass, Isotopic substitution evidence against the formation of $(H_3O^+)_{ad}$ from coadsorption of hydrogen and water on Cu(110) 238 (1990) L478

P.A. Taylor, R.M. Wallace, W.J. Choyke and J.T. Yates, Jr., The adsorption and thermal decomposition of PH_3 on Si(111)-(7 × 7) 238 (1990) 1

M. Kiskinova, M. Tikhov and L. Surnev, Interaction of oxygen with Si(111)-7 × 7 and Si(100)2 × 1 surfaces modified with small amounts of Cs 238 (1990) 25

V.M. Donnelly and J.A. McCaulley, Products of thermal decomposition of triethylgallium and trimethylgallium adsorbed on Ga-stabilized GaAs(100) 238 (1990) 34

J.-W. He and P.R. Norton, Interaction of water with a Pd(110) surface, studied by thermal desorption spectroscopy, LEED and $\Delta\phi$ 238 (1990) 95

J.S. Dyer and P.A. Thiel, Adsorption and desorption of CF_3I on Ru(001) 238 (1990) 169

M.M. Walczak and P.A. Thiel, Cyclic ethers adsorbed on Ru(001) 238 (1990) 180

X.-L. Zhou, M.E. Castro and J.M. White, Interactions of UV photons and low energy electrons with chemisorbed benzene on Ag(111) 238 (1990) 215

A.P. Baddorf and D.M. Zehner, Chemisorption of nitrogen on Cu(110): coverage and site determination 238 (1990) 255

Tungsten

V.R. Dhanak and D.W. Bassett, Field ion microscope studies of submonolayer rhodium films on (110) tungsten and molybdenum surfaces 238 (1990) 289

Tunneling

T.L. Porter, S. Jeffers, G. Caple, B.L. Wheeler and R. Swift, Scanning tunneling microscopy studies of polythiophene and poly-3-bromothiophene films 238 (1990) L433

N. Isshiki, K. Kobayashi and M. Tsukada, Effect of electronic states of the tip on the STM image of graphite 238 (1990) L439

S.L. Tang, R.V. Kasowski, A. Suna and B.A. Parkinson, Surface valence charge distributions and scanning tunneling microscopy of WTe_2 238 (1990) 280

E. Balázs and L. Orosz, Variational calculation of barriers for metal–vacuum–metal junctions 238 (1990) 341

Water

A.F. Carley, P.R. Davies, M.W. Roberts and K.K. Thomas, Hydroxylation of molecularly adsorbed water at Ag(111) and Cu(100) surfaces by dioxygen:

photoelectron and vibrational spectroscopic studies 238 (1990) L467
J. Schott, D. Lackey and J.K. Sass, Isotopic substitution evidence against the formation of $(H_3O^+)_{ad}$ from coadsorption of hydrogen and water on Cu(110) 238 (1990) L478
J.-W. He and P.R. Norton, Interaction of water with a Pd(110) surface, studied by thermal desorption spectroscopy, LEED and $\Delta\phi$ 238 (1990) 95

Work function

J.-W. He and P.R. Norton, Interaction of water with a Pd(110) surface, studied by thermal desorption spectroscopy, LEED and $\Delta\phi$ 238 (1990) 95